Nanomedicine is an interdisciplinary research area within the scope of Nanotechnology. It has recently become increasingly important because it promises to develop medical technologies at the nanoscale, ranging from drug delivery carriers and imaging agents to nanomaterials and nanoelectronic biosensors. With this Vancouver Nanomedicine Day 2017, we would like to raise awareness of current work being done in the nanomedicine field and establish a collaborative network between researchers, postdoctoral fellows, graduate students, life science and startup biotechnology companies. We hope that this yearly event will catalyze and stimulate research collaborations in and around Vancouver in this important field.

REGISTRATION (Coffee provided) 8:30 AM
WELCOME TO THE NANOMEDICINE DAY - Prof. Urs Hafeli, Pharmaceutical Sciences, UBC 9:00 AM
*Assessment of the Biodistribution of Aluminum-Based Vaccine Adjuvants using \[^{111/115}\text{In-ASO(OH)}\]" - Tullio Esposito, Pharmaceutical Sciences, UBC 9:10 AM
INVITED TALK
*Protein-Based Synthesis of Inorganic Nanostructures for Biology and Medicine*
Prof. François Baneyx, University of Washington, Chemical Engineering, Seattle, U.S.A 9:30 AM
BREAK (Refreshments provided) 10:20 AM
*On-Chip Study of Lipid Nanoparticle Absorption in Tumour Spheroids*
- Karen Cheung, Electrical and Computer Engineering, UBC 10:50 AM
*New Tools for the Delivery of RNA to Platelets* - Stefanie Novakowski, Michael Smith Laboratories, UBC 11:10 AM
*Lipid Nanoparticles co-Loaded with siRNA and Taxane Prodrugs for Combination Treatment of Prostate Cancer* - Roy van der Meel, Department of Biochemistry and Molecular Biology, UBC 11:30 AM
*CRISPR: Background and Potential Role in Nanomedicine* - Colin Ross, Pharmaceutical Sciences, UBC 11:50 AM
LUNCH (Provided) 12:10 AM
INVITED TALK
*Magnetic Particle Imaging: Fundamentals and Applications in Cancer, Cardiovascular and Stroke Imaging*
Prof. Kannan Krishnan, Univ. of Washington, Dept. of Material Sciences & Engineering and Physics, Seattle, U.S.A 1:00 PM
*Development of Messenger RNA Lipid Nanoparticles as Next Generation Vaccines*
- Ying Tam, Acuitas Therapeutics, Vancouver, BC 1:50 PM
*Osteoregeneration of Critical Size Defects Using a Combination of New Chitosan-Based Nanoparticles* - Horacio Bach, Fac. of Medicine, Division of Infectious Diseases, UBC 2:10 PM
BREAK (Refreshments provided) 2:30 PM
*Introduction to the National Institute for Nanotechnology* - Marianna Kulka, NINT, Edmonton, AB 2:35 PM
*Liposomal Therapy Protects Host Cells from Necrosis Induced by Community-Associated Methicillin-Resistant Staphylococcus Aureus and Pseudomonas Aeruginosa* - Heidi Woltefer, Dept. Microbiology & Immunology, UBC 2:50 PM
INVITED TALK
*Complexity of Nanoparticles Targeting in Solid Tumours*
Prof. Warren Chan, Univ. of Toronto, Chemistry Department, Canada 3:20 PM
*The Future of Nanomedicine in British Columbia* - Pieter Cullis, Dept. of Biochemistry and Molecular Biology, UBC 3:40 PM
POSTER SESSION (Beer and Pretzels provided) 4:20 PM
UBC Nanomedicine Planning Meeting (closed meeting) - Pieter Cullis, Urs Hafeli 4:20 PM
POSTER PRIZES / END OF MEETING 5:50 PM

We appreciate very much our sponsors who provide this Vancouver Nanomedicine Day including all the food for free to registered participants. For free registration, please go online to www.nanomedicine.ubc.ca we are looking forward to your participation!